

B4

**SOLUBLE SIGNAL GENERATING SYSTEM, COMPOSITION, KIT AND APPARATUS CONTAINING SAME OR FOR GENERATING SAME**

**Abstract of the Disclosure**

This invention provides a composition of matter, an apparatus, a kit and a transparent non-porous or translucent non-porous system for generating in solution a soluble signal from chemically-labelled oligonucleotides or polynucleotides. The composition of matter can take the form of double stranded oligonucleotides or polynucleotides which are fixed or immobilized, e.g., directly or indirectly, to a solid support or to the system itself. The chemical label or labels comprise and can even take the form of signalling moieties capable of generating a soluble signal. The apparatus for generating a soluble signal includes solution containing means and soluble signal generating means. Also provided is a transparent non-porous or translucent non-porous system capable of containing a fluid or solution. The soluble signal generating system includes an oligonucleotide or polynucleotide, a solid support for fixing or immobilizing same, and a fluid or solution. The oligonucleotide or polynucleotide comprises a label or labels which comprise a signalling moiety or moieties which are capable of generating a soluble signal.

---